Name of Work: Construction of RCC Drains and Culverts at Anugraha layout, Muniswamappa layout and Sai Nagar-2 And Surrounding area in ward No. 03, Yelahanka Satellite Town sub Division

EMB

"SECOND AND FINAL BILL"

Token Password: Bangalore@123

Name of Work: Construction of RCC Drains and Culverts at Anugraha layout, Muniswamappa layout and Sai Nagar-2 And Surrounding area in ward No. 03, Yelahanka Satellite Town sub Division

Date of Pre-Measurement : 10.11.2022

Detailed Measurements

Item No	Discription of Item		No	Length	Breadth	Depth	Qty	Unit	Rate	Amount
1	KSRRB300-1. Earthwork excavation by manual means for Drains and similar works in ordinar soil excavated surface levelled and sides neatly dressed, the dispossed earth to be levelled neatly after breaking of clods completed as per specifications. KPWD S.R 2018-19.	It No.		19.10	Pg No.		130			
	New CC Drain									
	Sai Nagar -II									
	8th Cross Road									
	LHS									
	Ch.0.00 to 9.4m		1	9.40	1.10	1.00	10.34			
	Ch.9.4 to 12.5m		1	3.10	1.10	1.00	3.41			
	Ch.12.5 to 42.5m		1	30.00	1.10	1.00	33.00			
	Ch.42.5 to 46.9m		1	4.40	1.10	1.00	4.84			
	Ch.46.9 to 49.9m		1	3.00	1.10	1.00	3.30			
	Ch.49.9 to 79.9m		1	30.00	1.10	1.00	33.00			
	Ch.79.9 to 101.9m		1	22.00	1.10	1.00	24.20			
	RHS									
	Ch.0.00 to 11.0m		1	11.00	1.10	1.00	12.10			
	Ch.11.0 to41.0 m		1	30.00	1.10	1.00	33.00			
	Ch.41.0 to 43.0m		1	2.00	1.10	1.00	2.20			
	Ch.43.0 to 51.3m		1	8.30	1.10	1.00	9.13			
	Ch.51.3 to 81.3m		1	30.00	1.10	1.00	33.00			
	Ch.81.3 to 88.6m		1	7.30	1.10	1.00	8.03			
	Ch.88.6 to 97.1m		1	8.50	1.10	1.00	9.35			
	Culverts									
	2nd main Road		1	9.30	1.50	1.20	16.74			
	3rd Cross Road		1	7.00	1.50	1.20	12.60			
	4th Cross Road		1	7.50	1.50	1.20	13.50			
	5th Cross Road		1	4.30	1.50	1.00	6.45			
	6th Cross Road		1	7.00	1.50	1.20	12.60			
	7th Cross Road		1	4.40	1.50	1.00	6.60			
	8th Cross Road		1	7.50	1.50	1.20	13.50			
	9th Cross Road		1	7.70	1.50	1.20	13.86			
	10th Cross Road		1	6.90	1.50	1.00	10.35			
	New Kerb									
	8th Cross Road									
	LHS									
	Ch.0.00 to 9.4m		1	9.40	0.20	0.20	0.38			
	Ch.9.4 to 12.5m		1	3.10	0.20	0.20	0.12			
	Ch.12.5 to 42.5m		1	30.00	0.20	0.20	1.20			
	Ch.42.5 to 46.9m		1	4.40	0.20	0.20	0.18			
	Ch.46.9 to 49.9m		1	3.00	0.20	0.20	0.12			
	Ch.49.9 to 79.9m		1	30.00	0.20	0.20	1.20			
	Ch.79.9 to 101.9m		1	22.00	0.20	0.20	0.88			
	RHS									
	Ch.0.00 to 11.0m		1	11.00	0.20	0.20	0.44			
	Ch.11.0 to41.0 m		1	30.00	0.20	0.20	1.20			

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Ch.41.0 to 43.0m		1	2.00	0.20	0.20	0.08			
Ch.43.0 to 51.3m		1	8.30	0.20	0.20	0.33			
Ch.51.3 to 81.3m		1	30.00	0.20	0.20	1.20			
Ch.81.3 to 88.6m		1	7.30	0.20	0.20	0.29			
Ch.88.6 to 97.1m		1	8.50	0.20	0.20	0.34			
					Present Qty	333.06	Cum	211.79	70539.00

Contractor PMC Assistant Engineer Asst, Executive Engineer

Name of Work: Construction of RCC Drains and Culverts at Anugraha layout, Muniswamappa layout and Sai Nagar-2 And Surrounding area in ward No. 03, Yelahanka Satellite Town sub Division

Date of Pre-Measurement : 15.11.2021

Detailed Measurements

Item No	Discription of Item		No	Length	Breadth	Depth	Qty	Unit	Rate	Amount
2	KSRRB M2900-1. Plain cement concrete M10 mix with crushed stone aggregates 40mm nominal size mechanically mixed, placed in foundation and compacted by vibration including cost of materials, labour, HOM completed as per specifications. KPWD S.R 2018-19. It No. 34.1 Pg No. 254									
	New CC Drain									
	Sai Nagar Phase-2									
	8th Cross Road									
	LHS									
	Ch.0.00 to 9.4m		1	9.40	1.10	0.15	1.55			
	Ch.9.4 to 12.5m		1	3.10	1.10	0.15	0.51			
	Ch.12.5 to 42.5m		1	30.00	1.10	0.15	4.95			
	Ch.42.5 to 46.9m		1	4.40	1.10	0.15	0.73			
	Ch.46.9 to 49.9m		1	3.00	1.10	0.15	0.50			
	Ch.49.9 to 79.9m		1	30.00	1.10	0.15	4.95			
	Ch.79.9 to 101.9m		1	22.00	1.10	0.15	3.63			
	RHS									
	Ch.0.00 to 11.0m		1	11.00	1.10	0.15	1.82			
	Ch.11.0 to41.0 m		1	30.00	1.10	0.15	4.95			
	Ch.41.0 to 43.0m		1	2.00	1.10	0.15	0.33			
	Ch.43.0 to 51.3m		1	8.30	1.10	0.15	1.37			
	Ch.51.3 to 81.3m		1	30.00	1.10	0.15	4.95			
	Ch.81.3 to 88.6m		1	7.30	1.10	0.15	1.20			
	Ch.88.6 to 97.1m		1	8.50	1.10	0.15	1.40			
	Culverts									
	2nd main Road		1	9.30	1.50	0.15	2.09			
	3rd Cross Road		1	7.00	1.50	0.15	1.58			
	4th Cross Road		1	7.50	1.50	0.15	1.69			
	5th Cross Road		1	4.30	1.50	0.15	0.97			
	6th Cross Road		1	7.00	1.50	0.15	1.58			
	7th Cross Road		1	4.40	1.50	0.15	0.99			
	8th Cross Road		1	7.50	1.50	0.15	1.69			
	9th Cross Road		1	7.70	1.50	0.15	1.73			
	10th Cross Road		1	6.90	1.50	0.15	1.55			
	New Kerb									
	8th Cross Road									
	LHS									
	Ch.0.00 to 9.4m		1	9.40	0.20	0.10	0.19			
	Ch.9.4 to 12.5m		1	3.10	0.20	0.10	0.06			
	Ch.12.5 to 42.5m		1	30.00	0.20	0.10	0.60			
	Ch.42.5 to 46.9m		1	4.40	0.20	0.10	0.09			
	Ch.46.9 to 49.9m		1	3.00	0.20	0.10	0.06			
	Ch.49.9 to 79.9m		1	30.00	0.20	0.10	0.60			
	Ch.79.9 to 101.9m		1	22.00	0.20	0.10	0.44			
	RHS									
	Ch.0.00 to 11.0m		1	11.00	0.20	0.10	0.22			

C&E
15/11/2021

Validity Up to: 25.05.2022

Ch.11.0 to41.0 m		1	30.00	0.20	0.10	0.60			
Ch.41.0 to 43.0m		1	2.00	0.20	0.10	0.04			
Ch.43.0 to 51.3m		1	8.30	0.20	0.10	0.17			
Ch.51.3 to 81.3m		1	30.00	0.20	0.10	0.60			
Ch.81.3 to 88.6m		1	7.30	0.20	0.10	0.15			
Ch.88.6 to 97.1m		1	8.50	0.20	0.10	0.17			
					Present Qty	50.68	Cum	4479.56	227002.00

Contractor PMC Assistant Engineer Asst, Executive Engineer

ame of Work: **Construction of RCC Drains and Culverts at Anugraha layout, Muniswamappa layout and Sai Nagar -2 And Surrounding area in ward No. 03, Yelahanka Satellite Town sub Division**

Date of Pre-Measurement : 18.11.2021

Detailed Measurements

Item No	Discription of Item		No	Length	Breadth	Depth	Qty	Unit	Rate	Amount
3	KSRRB M2200-6. Providing T.M.T. steel reinforcement for R.C.C. work including straightening, cutting, bending, hooking, placing in position, lapping and/or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per disign (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM complete as per specification. KPWD S.R 2018-19.	It No.	34.1		Pg No.	254				
	Sai Nagar Phase-2									
	8th Cross Road									
	Total drain length=199.0m									
	Main bar 10mm dia bar @ 130mm									
	0.60kg/mtr									
	No of U-bar=1531.00Nos		1531	2.15		0.60	1974.69			
	Distribution bar									
	Distribution bar 08mm dia @ 150mm									
	0.60kg/mtr		14	199.0		0.60	1671.60			
	Culverts									
	Total drain length=61.60m									
	Main bar 12mm dia bar @ 130mm									
	0.90kg/mtr									
	No of U-bar=948.00Nos		948	2.15		0.90	1833.28			
	Distribution bar									
	Distribution bar 10mm dia @ 150mm									
	0.60kg/mtr		28	61.6		0.60	1034.88			
							6514.96			
						Present Qty	6.51	T	72326.98	471208.00

Contractor PMC Assistant Engineer Asst, Executive Engineer

Token Validity Up to: 25.06.2021

Nagar-2 And Surrounding area in ward No. 03, Yelahanka Satellite Town sub Division

Date of Re-Measurement : 10-01-2022

Detailed Measurements

Item No	Discription of Item		No	Length	Breadth	Depth	Qty	Unit	Rate	Amount
6	Supplying and Fixing precast reinforced concrete slab 250mm thick of mix M20 using 20mm and down size graded granite metal using reinforced 10mm dia steel at 150mm C/C both ways cost of transportation, hire charges of machinery, machine cutting the vertical face to get plain even surface etc., complete with all leads and lift conveyance charges, labour charges inclusive of cost of all materials.									
	Cover Slabs									
	Sai Nagar Phase-2									
	2nd main Road		1	9.30	1.20		11.16			
	3rd Cross Road		1	7.00	1.20		8.40			
	4th Cross Road		1	7.50	1.20		9.00			
	5th Cross Road		1	4.30	1.20		5.16			
	6th Cross Road		1	7.00	1.20		8.40			
	7th Cross Road		1	4.40	1.20		5.28			
	8th Cross Road		1	7.50	1.20		9.00			
	9th Cross Road		1	7.70	1.20		9.24			
	10th Cross Road		1	6.90	1.20		8.28			
						Present Qty	**73.92**	**Sqm**	**5418.0**	**400499**

Contractor PMC Assistant Engineer Asst, Executive Engineer

Validity Up to: 25.06.2021

Name of Work: **Construction of RCC Drains and Culverts at Anugraha layout, Muniswamappa layout and Sai Nagar-2 And Surrounding area in ward No. 03, Yelahanka Satellite Town sub Division**

Date of Pre-Measurement : 11.01.2022

Detailed Measurements

Item No	Discription of Item		No	Length	Breadth	Depth	Qty	Unit	Rate	Amount
7	providing and fixing Pre cast solid concrete kerb stones of size 450x200x400 mm made of CC 1:2:4 and finished with CM 1:3 plastering and finishing cutting etc., completed. KPWD S.R 2018-19 It No. 5.29.1. Pg No. 27									
	Kerb Stones									
	Sai Nagar Phase-2									
	8th Cross Road									
	LHS									
	Ch.0.00 to 9.4m		1	9.40			26			
	Ch.9.4 to 12.5m		1	3.10			11			
	Ch.12.5 to 42.5m		1	30.00			66			
	Ch.42.5 to 46.9m		1	4.40			10			
	Ch.46.9 to 49.9m		1	3.00			8			
	Ch.49.9 to 79.9m		1	30.00			66			
	Ch.79.9 to 101.9m		1	22.00			48			
	RHS									
	Ch.0.00 to 11.0m		1	11.00			24			
	Ch.11.0 to41.0 m		1	30.00			63			
	Ch.41.0 to 43.0m		1	2.00			4			
	Ch.43.0 to 51.3m		1	8.30			18			
	Ch.51.3 to 81.3m		1	30.00			66			
	Ch.81.3 to 88.6m		1	7.30			24			
	Ch.88.6 to 97.1m		1	8.50			27			
						Present Qty	**462**	**Nos**	**477.00**	**220451.00**

Contractor

PMC

Assistant Engineer

Asst, Executive Engineer

Name of Work: Construction of RCC Drains and Culverts at Anugraha layout, Muniswamappa layout and Sai Nagar-2 And Surrounding area in ward No. 03, Yelahanka Satellite Town sub Division

Date of Pre-Measurement : 01-01-2022

Detailed Measurements

Item No	Discription of Item		No	Length	Breadth	Depth	Qty	Unit	Rate	Amount
9	KSRRB M300-14. Excavation for road work in all type of soil by mechanical means including cutting loading to tippers trimming bottom and side slopes in accordance with requirment of lines and cross sections and transportation with a lead of 1.00 km and complete as per specification. MORTH Specification No.301 and 4Kms Lead for disposal. KPWD S.R 2018-19	It No.	19.14		Pg No.	143				
	Sai Nagar Phase-2									
	8th Cross Road									
	Ch.0.00 to 30.0m		1	30.00	6.80	0.30	61.20			
	Ch.30.0 to 60.0m		1	30.00	6.80	0.30	61.20			
	Ch.60.0 to 90.0m		1	30.00	6.80	0.30	61.20			
	Ch.90.0 to 102.0m		1	12.00	6.80	0.30	24.48			
	9th Cross Road									
	Ch.0.00 to 30.0m		1	30.00	6.80	0.30	61.20			
	Ch.30.0 to 60.0m		1	30.00	6.80	0.30	61.20			
	Ch.60.0 to 90.0m		1	30.00	7.00	0.30	63.00			
	Ch.90.0 to 104.0m		1	14.00	7.00	0.30	29.40			
	BHEL LAYOUT									
	3rd Cross Road									
	Ch.0.00 to 30.0m		1	30.00	6.80	0.30	61.20			
	Ch.30.0 to 60.0m		1	30.00	6.60	0.30	59.40			
	Ch.60.0 to 90.0m		1	30.00	6.80	0.30	61.20			
	Ch.90.0 to 102.0m		1	11.40	6.80	0.30	23.26			
						Present Qty	627.94	Cum	57.03	35812.00

9/1/2022

Contractor

PMC

Assistant Engineer

Asst, Executive Engineer

Name of Work: Construction of RCC Drains and Culverts at Anugraha layout, Muniswamappa layout and Sai Nagar-2 And Surrounding area in ward No. 03, Yelahanka Satellite Town sub Division

Date of Pre-Measurement : 07.01.2022

Detailed Measurements

Item No	Discription of Item		No	Length	Breadth	Depth	Qty	Unit	Rate	Amount
11	construction of granular sub-base grading-v as sub-base and drainage layer by providing coarse graded crushed stone aggregates of granite material, mixing by mix in place method by rotavator at OMC spreading in uniform layers with motor grader on prepared surface and compactioning with vibratory power roller to achieve the 98% proctor density, complete as per specification. clause 401 of MORTH V revision. KPWD S.R 2018-19 It No 20.60 Pg No. 153									
	Sai Nagar Phase-2									
	8th Cross Road									
	Ch.0.00 to 30.0m		1	30.00	6.80	0.15	30.60			
	Ch.30.0 to 60.0m		1	30.00	6.80	0.15	30.60			
	Ch.60.0 to 90.0m		1	30.00	6.80	0.15	30.60			
	Ch.90.0 to 102.0m		1	12.00	6.80	0.15	12.24			
	9th Cross Road									
	Ch.0.00 to 30.0m		1	30.00	6.80	0.15	30.60			
	Ch.30.0 to 60.0m		1	30.00	6.80	0.15	30.60			
	Ch.60.0 to 90.0m		1	30.00	7.00	0.15	31.50			
	Ch.90.0 to 104.0m		1	14.00	7.00	0.15	14.70			
	BHEL LAYOUT									
	3rd Cross Road									
	Ch.0.00 to 30.0m		1	30.00	6.80	0.15	30.60			
	Ch.30.0 to 60.0m		1	30.00	6.60	0.16	29.70			
	Ch.60.0 to 90.0m		1	30.00	6.80	0.15	30.60			
	Ch.90.0 to 102.0m		1	11.40	6.80	0.15	11.63			
						Present Qty	**313.97**	**Cum**	**1855.00**	**582411.00**

Contractor PMC Assistant Engineer Asst, Executive Engineer

Name of Work: Construction of RCC Drains and Culverts at Anugraha layout, Muniswamappa layout and Sai Nagar-2 And Surrounding area in ward No. 03, Yelahanka Satellite Town sub Division

Date of Pre-Measurement : 17.01.2022.

Detailed Measurements

Item No	Discription of Item		No	Length	Breadth	Depth	Qty	Unit	Rate	Amount
13	KSRRB M500-6Providing and applying primer coat with S.S bitumen emulsion on prepared surface of granular base such as WMM including cleaning of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per specifications. clause 502 of MORTH V revision. KPWD S.R 2018-19 It No 21.6 Pg No. 158									
	Sai Nagar Phase-2									
	8th Cross Road									
	Ch.0.00 to 30.0m		1	30.00	6.80		204.00			
	Ch.30.0 to 60.0m		1	30.00	6.80		204.00			
	Ch.60.0 to 90.0m		1	30.00	6.80		204.00			
	Ch.90.0 to 102.0m		1	12.00	6.80		81.60			
	9th Cross Road									
	Ch.0.00 to 30.0m		1	30.00	6.80		204.00			
	Ch.30.0 to 60.0m		1	30.00	6.80		204.00			
	Ch.60.0 to 90.0m		1	30.00	7.00		210.00			
	Ch.90.0 to 104.0m		1	14.00	7.00		98.00			
	BHEL LAYOUT									
	3rd Cross Road									
	Ch.0.00 to 30.0m		1	30.00	6.80		204.00			
	Ch.30.0 to 60.0m		1	30.00	6.60		198.00			
	Ch.60.0 to 90.0m		1	30.00	6.80		204.00			
	Ch.90.0 to 102.0m		1	11.40	6.80		77.52			
						Present Qty	**2093.12**	**Sqm**	**33.92**	**70999.00**

C & FE. 17/01/2022

Contractor PMC Assistant Engineer Asst, Executive Engineer

Name of Work: **Construction of RCC Drains and Culverts at Anugraha layout, Muniswamappa layout and Sai Nagar-2 And Surrounding area in ward No. 03, Yelahanka Satellite Town sub Division**

Date of Pre-Measurement : 17.01.2022.

Detailed Measurements

Item No	Discription of Item		No	Length	Breadth	Depth	Qty	Unit	Rate	Amount
14	KSRRB 500--11 Providing and laying bituminous macadam using 40/60 TPH Capacity H.M.P. with Mechanical paver Gr-II(50mm to75mm) with 3.4% VG-30 Bitumenon prepared surface with crushed coarse aggregates as per desing mix formula for base/ binding coarse including loading of aggregates with F.E> loader, hot Mixing of stone aggregates and bitumen in hot mix plant,transporting the mixed materials in tippers to paver and laying mixed materials with paver finisher to the required and grade complete as per specifications. KPWD S.R 2018-19 It No 21.20 Pg No. 158									
	Sai Nagar Phase-2									
	8th Cross Road									
	Ch.0.00 to 30.0m		1	30.00	6.80	0.05	10.20			
	Ch.30.0 to 60.0m		1	30.00	6.80	0.05	10.20			
	Ch.60.0 to 90.0m		1	30.00	6.80	0.05	10.20			
	Ch.90.0 to 102.0m		1	12.00	6.80	0.05	4.08			
	9th Cross Road									
	Ch.0.00 to 30.0m		1	30.00	6.80	0.05	10.20			
	Ch.30.0 to 60.0m		1	30.00	6.80	0.05	10.20			
	Ch.60.0 to 90.0m		1	30.00	7.00	0.05	10.50			
	Ch.90.0 to 104.0m		1	14.00	7.00	0.05	4.90			
	BHEL LAYOUT									
	3rd Cross Road									
	Ch.0.00 to 30.0m		1	30.00	6.80	0.05	10.20			
	Ch.30.0 to 60.0m		1	30.00	6.60	0.05	9.90			
	Ch.60.0 to 90.0m		1	30.00	6.80	0.05	10.20			
	Ch.90.0 to 102.0m		1	11.40	6.80	0.05	3.88			
						Present Qty	**104.66**	**Cum**	**5962.5**	**624012.00**

Contractor PMC Assistant Engineer Asst, Executive Engineer

Name of Work: **Construction of RCC Drains and Culverts at Anugraha layout, Muniswamappa layout and Sai Nagar-2 And Surrounding area in ward No. 03, Yelahanka Satellite Town sub Division**

Date of Pre-Measurement : 18-01-2022.

Detailed Measurements

Item No	Discription of Item		No	Length	Breadth	Depth	Qty	Unit	Rate	Amount
15	KSRRB 500--10 Providing and applying tack coat using 80/100 grade bitumen(VGIO) in boiler fitted with spray set distributor at the rate of 0.25 kg per Sqm on the existing prepared bituminous surface cleaned with mechanical broom, complete as per specifications. clause 503 of MORTH V revision. KPWD S.R 2018-19 It No 21.7 Pg No. 158							Sqm		
	Sai Nagar Phase-2									
	8th Cross Road									
	Ch.0.00 to 30.0m		1	30.00	6.80		204.00			
	Ch.30.0 to 60.0m		1	30.00	6.80		204.00			
	Ch.60.0 to 90.0m		1	30.00	6.80		204.00			
	Ch.90.0 to 102.0m		1	12.00	6.80		81.60			
	9th Cross Road									
	Ch.0.00 to 30.0m		1	30.00	6.80		204.00			
	Ch.30.0 to 60.0m		1	30.00	6.80		204.00			
	Ch.60.0 to 90.0m		1	30.00	7.00		210.00			
	Ch.90.0 to 104.0m		1	14.00	7.00		98.00			
	BHEL LAYOUT									
	3rd Cross Road									
	Ch.0.00 to 30.0m		1	30.00	6.80		204.00			
	Ch.30.0 to 60.0m		1	30.00	6.60		198.00			
	Ch.60.0 to 90.0m		1	30.00	6.80		204.00			
	Ch.90.0 to 102.0m		1	11.40	6.80		77.52			
						Present Qty	**2093.12**	**Sqm**	**12.72**	**26625.00**

CRF
Fault
19/01/2022

ಜಂಟಿಯ ತಾಲ್ಯಾಪಾಲಕ ಅಭಿಯಂತರರ ಎಚ್ಚರಿಕೆಯ ಉಪಸ್ಥಿತಿಯಲ್ಲಿ ಸ್ಥಳ ಪರಿಶೀಲನೆ ಮಾಡಲಾಗಿದೆ. ಪೂರ್ಣಗೊಳಿಸಲಾಗಿದೆ

Contractor

Bangalore Test House Pvt Ltd * Karnataka * Authorised Signatory

PMC

Assistant Engineer

Asst, Executive Engineer

Name of Work: Construction of RCC Drains and Culverts at Anugraha layout, Muniswamappa layout and Sai Nagar-2 And Surrounding area in ward No. 03, Yelahanka Satellite Town sub Division

Date of Pre-Measurment

Detailed Measurments

Item No	Discription of Item			Unit	Rate	Amount
1	KSRRB300-1. Earthwork excavation by manual means for Drains and similar works in ordinar soil excavated surface levelled and sides neatly dressed, the dispossed earth to be levelled neatly after breaking of clods completed as per specifications. KPWD S.R 2018-19. It No. 19.10 Pg No. 130					
		Present Qty	**333.06**	**Cum**	**211.79**	**70539.00**
2	KSRRB M2900-1. Plain cement concrete M10 mix with crushed stone aggregates 40mm nominal size mechanically mixed, placed in foundation and compacted by vibration including cost of materials, labour, HOM completed as per specifications. KPWD S.R 2019-19. It No. 34.1 Pg No. 254					
		Present Qty	**50.68**	**Cum**	**4479.56**	**227002.00**
3	KSRRB M2200-6. Providing T.M.T. steel reinforcement for R.C.C. work including straightening, cutting, bending, hooking, placing in position, lapping and/or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per disign (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM complete as per specification. KPWD S.R 2018-19. It No. 34.1 Pg No. 254					
		Present Qty	**6.51**	**Cum**	**72326.98**	**471208.00**
4	Providing and laying plain/reinforced cement concrete for side drains walls and bottom raft thickness 15cm using M20 nominal mix concrete with OPC at 300 kgs. With 20mm and down size granite metal coarse aggregates at 0.69 cum and fine aggregates 0.43 cum machinacally mixed, well compacted for walls and bottom including centring, shuttering, cost of materials, HOM of machinary, curing, etc., completed as per MORTH specifications No. 1500, 1700, 2200. KPWD S.R 2018-19 It No. 37.59.2. Pg No. 271					
		Present Qty	**102.82**	**Cum**	**7070.20**	**726944.00**
9	KSRRB M300-14. Excavation for road work in all type of soil by mechanical means including cutting loading to tippers trimming bottom and side slopes in accordance with requirment of lines and cross sections and transportation with a lead of 1.00 km and complete as per specification. MORTH Specification No.301 and 4Kms Lead for disposal.					
		Present Qty	**627.94**	**Cum**	**57.03**	**35812.00**

10	KSRRB 300-58. Compaction of original ground by mechanical means including filling in depression occcuring during rolling including cost of labour, HOM complete as per specifications. MORTH I Chapter 3 KPWD S.R 2018-19 It No 19.64 Pg No. 147				
	Present Qty	**2093.12**	**Sqm**	**6.36**	**13313.00**
11	construction of granular sub-base grading-v as sub-base and drainage layer by providing coarse graded crushed stone aggregates of granite material, mixing by mix in place method by rotavator at OMC spreading in uniform layers with motor grader on prepared surface and compactioning with vibratory power roller to achieve the 98% proctor density, complete as per specification. clause 401 of MORTH V revision. KPWD S.R 2018-19 It No 20.60 Pg No. 153				
	Present Qty	**313.97**	**Cum**	**1855.00**	**582411.00**
12	KSRRB M400-17. Providing, Laying, Spreading and Compacting cushed stone aggregates of granite/ trap/basalt to wet Mix macadam specifications including pre mixing the materials with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base /base coarse on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specification. KPWD S.R 2018-19 It No 20.18 Pg No. 155				
	Present Qty	**481.42**	**Cum**	**2001.28**	**963452.00**
13	KSRRB M500-6Providing and applying primer coat with S.S bitumen emulsion on prepared surface of granular base such as WMM including cleaning of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per specifications. clause 502 of MORTH V revision. KPWD S.R 2018-19 It No 21.6 Pg No. 158				
	Present Qty	**2093.12**	**Sqm**	**33.92**	**70999.00**
14	KSRRB 500--11 Providing and laying bituminous macadam using 40/60 TPH Capacity H.M.P. with Mechanical paver Gr-II(50mm to75mm) with 3.4% VG-30 Bitumenon prepared surface with crushed coarse aggregates as per desing mix formula for base/ binding coarse including loading of aggregates with F.E> loader, hot Mixing of stone aggregates and bitumen in hot mix plant,transporting the mixed materials in tippers to paver and laying mixed materials with paver finisher to the required and grade complete as per specifications. KPWD S.R 2018-19 It No 21.20 Pg No. 158				
	Present Qty	**104.66**	**Cum**	**5962.50**	**624012.00**

15	KSRRB 500--10 Providing and applying tack coat using 80/100 grade Sqm bitumen(VGIO) in boiler fitted with spray set distributor at the rate of 0.25 kg per Sqm on the existing prepared bituminous surface cleaned with mechanical broom, complete as per specifications. clause 503 of MORTH V revision. KPWD S.R 2018-19 It No 21.7 Pg No. 158				
		Present Qty	**2093.12**	**Sqm**	**12.72**	**26625.00**

Contractor PMC Assistant Engineer Asst. Executive Engineer

Name of Work: **Construction of RCC Drains and Culverts at Anugraha layout, Muniswamappa layout and Sai Nagar-2 And Surrounding area in ward No. 03, Yelahanka Satellite Town sub Division**

Date of Pre-Measurement : 18-01-2022.

Detailed Measurements

Item No	Discription of Item		No	Length	Breadth	Depth	Qty	Unit	Rate	Amount
16	providing and laying bituminous concrete 40mm thick with hot mix plant, using 40-60 TPH capacity HMP with mechanical paver grading II (30-45mm) with 5.4% of modified bituminous binder consisting of 4.97% of VG-30 bitumen(60/70 grade) and 0.43% of plastomeric thermoplastics (waste plastic) crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site laying with a paver finisher to required grade level and allignment rooling with smooth wheeled vibratory and tandem rollers to achive the desired compaction in all respects complete as per specifications KPWD S.R 2018-19 It No 21.78.12 Pg No. 171									
	Sai Nagar Phase-2									
	8th Cross Road									
	Ch.0.00 to 30.0m		1	30.00	6.80	0.04	8.16			
	Ch.30.0 to 60.0m		1	30.00	6.80	0.04	8.16			
	Ch.60.0 to 90.0m		1	30.00	6.80	0.04	8.16			
	Ch.90.0 to 102.0m		1	12.00	6.80	0.04	3.26			
	9th Cross Road									
	Ch.0.00 to 30.0m		1	30.00	6.80	0.04	8.16			
	Ch.30.0 to 60.0m		1	30.00	6.80	0.04	8.16			
	Ch.60.0 to 90.0m		1	30.00	7.00	0.04	8.40			
	Ch.90.0 to 104.0m		1	14.00	7.00	0.04	3.92			
	BHEL LAYOUT									
	3rd Cross Road									
	Ch.0.00 to 30.0m		1	30.00	6.80	0.04	8.16			
	Ch.30.0 to 60.0m		1	30.00	6.60	0.04	7.92			
	Ch.60.0 to 90.0m		1	30.00	6.80	0.04	8.16			
	Ch.90.0 to 102.0m		1	11.40	6.80	0.04	3.10			
						Present Qty	**83.72**	**Cum**	**8699.42**	**728358.00**

Material Test Hospet Bangalore

Contractor PMC Assistant Engineer Asst, Executive Engineer

Name of Work: Construction of RCC Drains and Culverts at Anugraha layout, Muniswamappa layout and Sai Nagar-2 And Surrounding area in ward No. 03, Yelahanka Satellite Town sub Division

Date of Pre-Measurement : 25.01.2022.

Detailed Measurements

Item No	Discription of Item		No	Length	Breadth	Depth	Qty	Unit	Rate	Amount
17	KSRRB M800-13. Road marking with hot applied thermoplastic compound with reflectrising glass beads on bituminous surface / concrete surface : providing and laying of hot applied thermo plastic compound 2.5mm thick including reflectorising glass beads at 250gms per sqm area thickness of 2.5mm is exclusive of surface applied glass beads as per IRC:35 standards specified.complete as per specifications. KPWD S.R 2018-19 It No 24.15 Pg No. 182									
	Sai Nagar Phase-2									
	8th Cross Road									
	Ch.0.00 to 30.0m		2	30.00		0.10	7.50			
	Ch.30.0 to 60.0m		2	30.00		0.10	7.50			
	Ch.60.0 to 90.0m		2	30.00		0.10	7.50			
	Ch.90.0 to 102.0m		2	12.00		0.10	3.00			
	9th Cross Road									
	Ch.0.00 to 30.0m		2	30.00		0.10	7.50			
	Ch.30.0 to 60.0m		2	30.00		0.10	7.50			
	Ch.60.0 to 90.0m		2	30.00		0.10	7.50			
	Ch.90.0 to 104.0m		2	14.00		0.10	3.50			
	BHEL LAYOUT									
	3rd Cross Road									
	Ch.0.00 to 30.0m		2	30.00		0.10	7.50			
	Ch.30.0 to 60.0m		2	30.00		0.10	7.50			
	Ch.60.0 to 90.0m		2	30.00		0.10	7.50			
	Ch.90.0 to 102.0m		2	11.40		0.10	2.85			
						Present Qty	**76.85**	**Sqm**	**454.74**	**34947.00**

Contractor PMC Assistant Engineer Asst, Executive Engineer

Name of Work: Construction of RCC Drains and Culverts at Anugraha layout, Muniswamappa layout and Sai Nagar-2 And Surrounding area in ward No. 03, Yelahanka Satellite Town sub Division

Date of Pre-Measurement : 25.01.2022.

Detailed Measurements

Item No	Discription of Item		No	Length	Breadth	Depth	Qty	Unit	Rate	Amount
18	KSRRB M800-35. Supply and installation of molded shank raised pavment markers made up of poly carbonate and ABS (acrylonitrile Butadiene styrene) molded body and reflective pannels with microprismatic lens capable of providing total internal reflection of the light entering the lense face and shall support load of 16000 KG tested in accordance to specifications of catagory A of MORTH circular No. RW/NH/33023/10-97 - DO III Dt 11.06.1997. the height width and length shall not exceed 50mm, 100mm and 102mm and with minimum reflective area of 13Sqcm on each side and the slope to the base shall be 35o the strength of detachment of the intergated cylindrical shanks (of diameter not less than 19mm and height not less than 30mm) from the body is to be a minimum value of 500KG. fixing will be by drilling hole on the road for the shanks to go inside, with out nails and using Epoxy resin based adhesive as per manufacuter recommendations and complete as directed by the engineer									
	KPWD S.R 2018-19	It No.		24.41		Pg No.	187			
	Sai Nagar Phase-2									
	8th Cross Road									
	Ch.0.00 to 102.0m	1	3	23			69.00			
	9th Cross Road									
	Ch.0.00 to 104.0m	1	3	23			69.00			
	BHEL LAYOUT									
	3rd Cross Road									
	Ch.0.00 to 101.4m	1	3	22			66.00			
							Present Qty	**204.00**	**Sqm**	**357.22**	**72873.00**

Contractor PMC Assistant Engineer Asst, Executive Engineer

Name of Work: Construction of RCC Drains and Culverts at Anugraha layout, Muniswamappa layout and Sai Nagar-2 And Surrounding area in ward No. 03, Yelahanka Satellite Town sub Division

Date of e-Measurement : 25.01.2022.

Detailed Measurements

Sl No	Discription of Item		No	Length	Breadth	Depth	Qty	Unit	Rate	Amount
19	Directions and place indentification signs with size morethan 0.9 size board: providing and erecting directions and place identification retro- reflectorised sign as per IRC :67 made of high intensity grade sheeting vide clause 801.3 fixed over aluminium sheeting 2mm thick with area not exceeding 0.9 sqm supported on a mild steel single angel iron post 75X75X6 mm 2 Nos. firmly fixed to the ground by means of properly designed foundation with M15 grade cement concrete 45X45X60 cm, 60 cm below ground level as per approved drawing. KPWD S.R 2018-19	It No	3	24.4 / 0.9	Pg No.	180 / 0.9	2.43			
							Present Qty	2.43	Sqm	7557.80	18366.00
									TOTAL		5712361.00
									12% GST CHARGES		685483.32
									4% KRIDL CHARGES		228494.44
									GRAND TOTAL		6626339.00

Contractor

Karnataka Material Test House PVT LTD PMC Bangalore

Assistant Engineer

Asst. Executive Engineer

25/01/2022